



Deductive Reasoning

Self Assessment Rubric

Rubrics for students self-assessment for Deduction (Grades 6-8)

Deduction is the process of using generalizations and principles to infer unstated conclusions about specific information or situations.

A. *I identify the specific situation that is being considered or studied.*

Rubric not appropriate.

B. *I identify the generalizations or principles that apply to the specific situation.*

4. I identify important generalizations or principles that apply to the situation and that reflect a thorough understanding of the situation.
3. I identify important generalizations or principles that apply to the situation.
2. I identify some generalizations or principles that apply to the situation, but I identify others that reflect misconceptions about or a limited understanding of the situation.
1. I identify generalizations or principles that reflect a lack of understanding of the situation.

C. *I identify the conditions that have to be in place for the generalizations or principles to apply.*

4. I thoroughly identify the conditions that have to be in place. The identified conditions reflect an in-depth understanding of the generalizations or principles.
3. I identify the conditions that have to be in place.
2. I identify only some of the conditions that have to be in place. Some of the identified conditions reflect misconceptions about or a limited understanding of the generalizations or principles.
1. I identify conditions that reflect a lack of understanding of the generalizations or principles.

D. *I explain whether the specific situation meets the conditions that have to be in place for the generalizations or principles to apply.*

4. I thoroughly explain whether the specific situation meets the conditions in a way that reflects an in-depth understanding of the situation.
3. I explain whether the specific situation meets the conditions in a way that reflects an understanding of the situation.
2. I explain whether the specific situation meets the conditions in a way that reflects misconceptions about or a limited understanding of the situation.
1. I explain whether the specific situation meets the conditions in a way that reflects serious misconceptions about or a lack of understanding of the situation; or I consider, in a cursory manner, whether the specific situation meets the conditions.

E. *If the generalizations or principles apply, I draw conclusions or make predictions.*

4. I draw conclusions or make predictions that are accurate and logical and that reflect a thorough understanding of how the generalizations or principles apply to the situation. I recognize subtle as well as obvious ways in which the generalizations or principles apply.
3. I draw conclusions or make predictions that are accurate and logical and that reflect an understanding of how the generalizations or principles apply to the situation.
2. I draw conclusions or make predictions that are not completely accurate and logical and that reflect misconceptions about or a limited understanding of how the generalizations or principles apply to the situation.
1. I draw conclusions or make predictions that are inaccurate and illogical and that reflect serious misconceptions about or a lack of understanding of how the generalizations or principles apply to the situation.

Adapted from McREL Institute